

**Amendments to the Specification:**

Please replace the paragraph beginning at page 5, line 11 with the following amended paragraph:

The invention will be generally described with reference to Figure 1. A symbol stream  $d(t)$  to be transmitted during a frame in the communication system is fed into a space-time encoder. The space-time encoder divides the symbol stream  $d(t)$  into two symbol streams,  $d_1(t)$  and  $d_2(t)$ , each containing half the symbols. The transmission frame is also divided into two blocks. The space-time encoder provides input to two radio transmitters 13 and 14 connected to two antennas 11 and 12. In the transmitters 13 and 14, the digital signals from the space-time encoder are converted to analog signals via a digital-to-analog ~~an analog-to-digital~~ converter and upconverted to radio frequency. In one embodiment of the invention the space-time encoder transmits symbol stream  $d_1(t)$  from antenna 11 during a first block of the transmission frame and transmits symbol stream  $d_2(t)$  from the antenna 12. In a second block of the transmission frame, the space-time encoder transmits symbol stream  $d_2(t)$  time-reversed, complex conjugated and negated from antenna 11 and symbol stream  $d_1(t)$  is transmitted time-reversed and complex conjugated from antenna 12.